PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference O.Z. 6360-WO			FOR FURTHER ACTION		See Form PCT/IPEA/416				
International application No. PCT/IB2004/002431		International filing date <i>(da)</i> 29.07.2004	y/month/year)	Priority date (day/month/year) 01.08.2003					
	rnational Patent Classi 1B33/193	fication (IPC) or	national classification and IPC						
• •	olicant SL JAPAN CO. LTI	D. et al.							
1.	This report is the Authority under A	international p	reliminary examination reporansmitted to the applicant a	ort, established by the	his International Preliminary Examining 36.				
2.	This REPORT co	nsists of a tota	al of 4 sheets, including this	cover sheet.					
3.	* II ANINEVEC comprising								
	a. sent to the applicant and to the International Bureau) a total of sheets, as follows:								
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	 b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 								
4.	This report conta	ins indications	relating to the following iter	ms:					
	⊠ Box No. I	Basis of the	ppinion						
	Box No. II	Priority	5 p						
	☐ Box No. III		hment of opinion with regard	d to novelty, inventi	ve step and industrial applicability				
	☐ Box No. IV	Lack of unity		•	·				
	⊠ Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	☐ Box No. VI	Certain docu	ments cited						
	☐ Box No. VII	Certain defe	cts in the international applic	cation					
	☐ Box No. VIII	/III Certain observations on the international application							
Da	ate of submission of the	e demand		Date of completion o	f this report				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/002431

10/566373

	Box	(No. I	Basis of the report			<u> </u>			
1.	With filed	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.							
		 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 							
2.	hav	With regard to the elements * of the international application, this report is based on <i>(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): `</i>							
	Des	Description, Pages							
	1-38	В		as originally filed					
	Cla	ims, Nu	mbers						
	1-1	1		as originally filed					
	Dra	ıwings,	Sheets						
	1/5-	·5/5		as originally filed					
		a seq	uence listing and/or ar	ny related table(s) -	- see Supplemental Box Relating to Sequence Listing	g			
3.		☐ the☐ the☐ the☐	mendments have rest e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing <i>(sp</i> by table(s) related to s	s ecify):					
4		d not be pplemed the control of the	report has been estabeen made, since they ental Box (Rule 70.2(contal Box) e description, pages e claims, Nos. e drawings, sheets/fig e sequence listing (spay) table(s) related to sequence.	have been conside)). s ecify):	of) the amendments annexed to this report and listed ered to go beyond the disclosure as filed, as indicated becify):	I below d in the			
	*	τ£ ;	tem 4 applies s	ome or all of	these sheets may be marked "superseded	. 11			

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-11

No: Claims

Inventive step (IS)

Yes: Claims

Claims

1-11

Industrial applicability (IA)

Yes: Claims

No:

1-11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/IB2004/002431

Re Item V.

The present application fulfils the requirements for patentability as set forth by Art. 33 PCT. The present application claims amorphous silica particles with a certain relation between pore volume and pore radius. The amorphous silica particles have high absorbing capacities even under high shear stress. The amorphous silica particles are used as matting agents and carrier for pharmaceuticals and agrochemicals.

The closest prior art is represented by US 2002/102198 A1. This document discloses amorphous porous silica particles having a high DBP absorption useful as carrier for pharmaceuticals and foodstuff. The relation between pore volume and pore radius is not disclosed. The method for producing the silica particles differs from the method in the present application. Absorption capacity under high shear stress is not discussed.

Further documents cited:

WO 03/055802 A discloses amorphous porous silica suitable for a dental composition. The relation between pore volume and pore radius is not disclosed. The method for producing the silica particles differs from the method in the present application.

US 5 922 298 A discloses amorphous porous silica useful as a component of microporous polymeric battery separators. The relation between pore volume and pore radius is not disclosed. The method for producing the silica particles differs from the method in the present application.

These improvements could not have been predicted and justify inventivity.